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| APPLICATION NO.       | I        | FILING DATE | FIRST NAMED INVENTOR    | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |  |
|-----------------------|----------|-------------|-------------------------|---------------------|------------------|--|--|
| 10/646,231 08/22/2003 |          | 08/22/2003  | Paul W. Brazis          | CML01198T           | 1387             |  |  |
| 22917                 | 7590     | 03/21/2005  |                         | EXAM                | EXAMINER         |  |  |
| MOTORO                |          |             | NGUYEN, THINH T         |                     |                  |  |  |
| 1303 EAST<br>IL01/3RD | ALGON    | QUIN ROAD   | ART UNIT                | PAPER NUMBER        |                  |  |  |
| SCHAUME               | BURG, IL | 60196       | 2818                    |                     |                  |  |  |
|                       |          |             | DATE MAILED: 03/21/2005 | 5                   |                  |  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

| <del> </del>   |  | Application   | No.   | Applicant(s)   |            |     |  |  |  |  |
|--|--|---|---|--|------------|-----|--|--|--|--|
|  |  | 10/646,231  |   | BRAZIS ET AL.  | /          | (M) |  |  |  |  |
|  | Office Action Summary  | Examiner  |   | Art Unit   |            |     |  |  |  |  |
|  |  | Thinh T. Ngu  | ıyen  | 2818   |            |     |  |  |  |  |
|  | The MAILING DATE of this communica   |   | <u> </u>  | orrespondence add  | ress       |     |  |  |  |  |
| Period fo  | • •  | DEDLY IC CET TO   | EVELOT A MANUTUR  | C) EBOM  |            |     |  |  |  |  |
| THE   - Exter after   - If the   - If NC   - Failu   Any ( | ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communiperiod for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statute to reply within the set or extended period for reply will reply received by the Office later than three months after ad-patent term adjustment. See 37 CFR 1.704(b). | ATION.<br>17 CFR 1.136(a). In no event,<br>cation.<br>ays, a reply within the statutor<br>pry period will apply and will e<br>, by statute, cause the applica | however, may a reply be tim<br>y minimum of thirty (30) days<br>xpire SIX (6) MONTHS from<br>tion to become ABANDONEI | nely filed<br>s will be considered timely.<br>the mailing date of this cor<br>D (35 U.S.C. § 133). |            |     |  |  |  |  |
| Status   |  |   |   |  |            |     |  |  |  |  |
| 1)⊠  | Responsive to communication(s) filed   | on <u>28 February 2005</u>  |   |  |            |     |  |  |  |  |
| 2a)  |  |   |   |  |            |     |  |  |  |  |
| 3) 🗌   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |   |   |  |            |     |  |  |  |  |
| Dispositi  | on of Claims   |   |   |  |            |     |  |  |  |  |
|  | Claim(s) 1-9 is/are pending in the appli<br>4a) Of the above claim(s) 7-9 is/are with<br>Claim(s) is/are allowed.<br>Claim(s) 1-6 is/are rejected.<br>Claim(s) is/are objected to.<br>Claim(s) are subject to restriction  | hdrawn from conside   |   |  |            |     |  |  |  |  |
| Applicati  | on Papers  |   |   |  |            |     |  |  |  |  |
| 10)⊠   | The specification is objected to by the EThe drawing(s) filed on 22 August 2003 Applicant may not request that any objection Replacement drawing sheet(s) including the the oath or declaration is objected to be  | is/are: a)⊠ accepte<br>on to the drawing(s) be<br>e correction is required  | held in abeyance. See<br>if the drawing(s) is obj   | e 37 CFR 1.85(a).<br>jected to. See 37 CF  | R 1.121(d) | ı.  |  |  |  |  |
| Priority ι   | ınder 35 U.S.C. § 119  |   |   |  |            |     |  |  |  |  |
| a)l  | Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority do  2. Certified copies of the priority do  3. Copies of the certified copies of application from the International See the attached detailed Office action from  | cuments have been i<br>cuments have been i<br>the priority document<br>I Bureau (PCT Rule   | received.<br>received in Applicati<br>is have been receive<br>17.2(a)).   | on No ed in this National S  | Stage      |     |  |  |  |  |
| Attachmen  | t(s)   |   |   |  |            |     |  |  |  |  |
| 2) 🔲 Notic<br>3) 🔲 Infori                                  | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date  | -948)<br>O/SB/08) 5   | Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:   | ate  | -152)      |     |  |  |  |  |

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### **DETAILED OFFICE ACTION**

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#### Election/Restriction

1. Applicant election of claims 1-6 for prosecution in the communication with the Office on 2/28/2005 is acknowledged.

## **Specification**

2. The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant cooperation is requested in correcting any errors of which the applicant may become aware in the specification.

# Claim Rejections - 35 USC § 102

- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(b/e) that form the basis for the rejections under this section made in this office action.
  - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
  - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claim 1,2 are rejected under 35 U.S.C. 102(b) as being anticipated by Maesako et al.

(U.S. Patent 6,016,280).

**REGARDING CLAIM 1** 

Maesako et al. disclose (in the abstract, in fig 1, fig 4) An apparatus comprising: a first

solid-state memory die; a second solid-state memory die; and a controller sensing one or more

operating parameters for the first and the second solid-state memory die and making intelligent

decisions on where to write data based on the operating parameters.

**REGARDING CLAIM 2** 

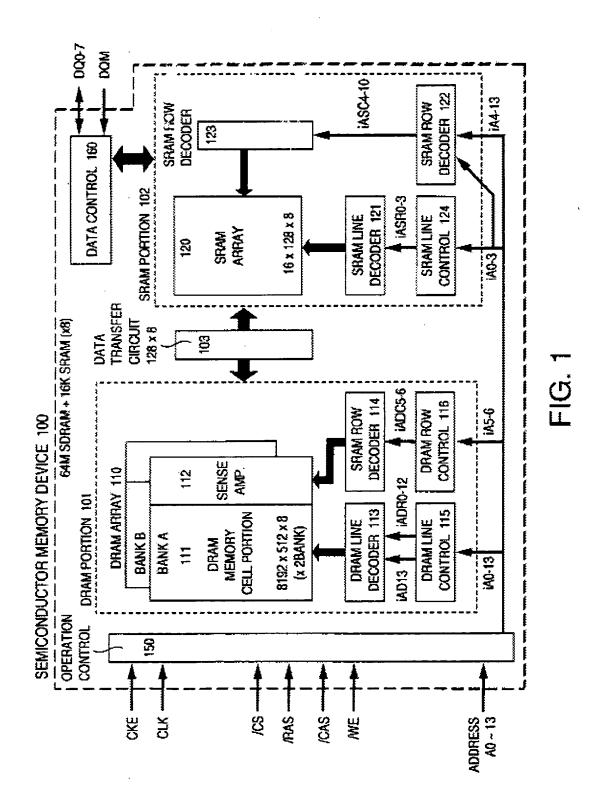
Maesako et al. disclose (in the abstract, in fig 1, fig 4) an apparatus that has a DRAM

and a SRAM.

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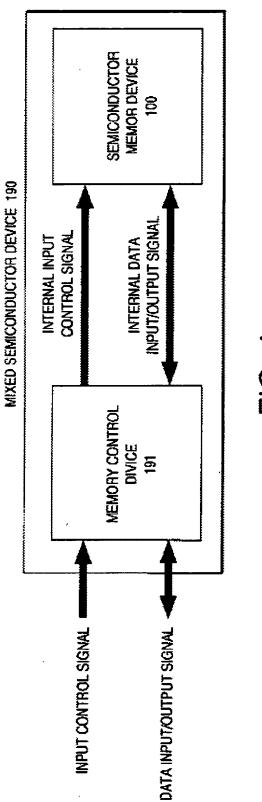


FIG. 4

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## Claim Rejections - 35 USC § 103

5. The following is a quotation of U.S.C. 103(a) which form the basis for all obviousness rejections set forth in this office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

6.. Claims 3,4,5 rejected under 35 U.S.C. 103(a) as being unpatentable over Maesako et al. (U.S. patent 6,016,280) in view of Schade (US patent 6,473,831).

**REGARDING CLAIM 3,4,5** 

Maesako et al. disclose (in the abstract, in fig 1, fig 4) all the inventions of claim 3,4,5 except for a database storing different operating parameters of different memories. Schade, however, teaches (in claim 1, in fig 10) how to use the database to make intelligent decisions to access different memory types.

It would have been obvious to one of ordinary skill in the art the time the invention was made to combine the teachings by Maesako et al. with the teachings by Schade in order to come up with the invention of claims 3,4,5 with a purpose of improving a semiconductor device.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maesako et al.
 (U.S. patent 6,016,280) in view of Schade (US patent 6,473,831) and in further view remark
 REGARDING CLAIM 6

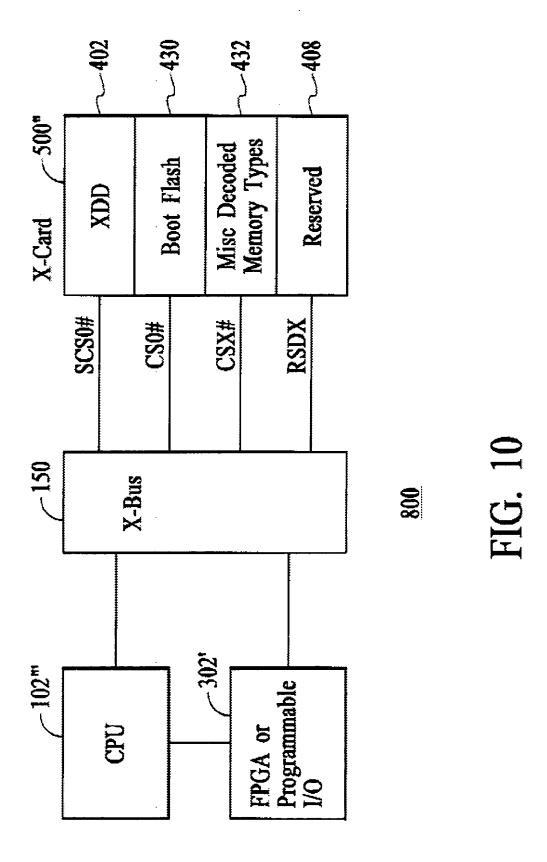
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The combined teachings by Maesako et al. and Schade disclose all the invention except for using a File Allocation Table. This limitation, however, is considered obvious since the use of FAT in memory ( for example disk drive on a PC) has become old and well known in the art.

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A person skilled in the art at the time the invention was made would have been able to use the File Allocation Table in the database using his ordinary routine design skill without any special teachings.

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8. When responding to the office action, Applicants are advised to provide the examiner

with the line numbers and the page numbers in the application and/or references cited to assist

the examiner to locate the appropriate paragraphs.

9. A shortened statutory period for response to this action is set to expire 3 (three)

months and 0 (zero) day from the day of this letter. Failure to respond within the period

for response will cause the application to be abandoned (see M.P.E.P. 710.02(b)).

#### CONCLUSION

10. The prior arts made of record and not relied upon are considered pertinent to applicant disclosure: Silvkoff et al. (US patent 6,601,130) disclose a memory interface unit with programmable strobe to select different memory devices.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached at 571-272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T. Nguyen

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David Nelms Supervisory Patent Exemine Page 10

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